GOVERNMENT OF INDIA
PETROLEUM AND NATURAL GAS
LOK SABHA

UNSTARRED QUESTION NO:2481
ANSWERED ON:08.12.2011
EXPLORATION OF OIL AND NATURAL GAS
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Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

(a) whether exploration work of oil and natural gas is not being done by latest and upgraded techniques;

(b) if so, the reaction of the Government thereto;

(c) the details of latest techniques used for exploration of oil and natural gas during the last two years; and

(d) the impact of use of latest technique on the cost of production?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI R.P.N. SINGH)

(a)&(b): Oil and Natural Gas Corporation Ltd. (ONGC) and Oil India Ltd. (OIL) and private/joint venture companies are using the latest and upgraded techniques for exploration work of oil and natural gas.

(c): The details of latest proven technologies employed in the area of seismic data acquisition, processing & interpretation, well logging and drilling for exploration of oil & gas during the last two years, are as under:

Multi component and long offset seismic

Seismic Data Processing using Pre-Stack Depth Migration (PSDM) technique

Passive Seismic Tomography

Poison Ratio Modeling

Amplitude Versus Offset analysis

Application of Synthetic Aperture Radar (SAR) imagery technology.

Airborne Gravity-Magnetic Survey

Resistivity anisotropy measurement

Nuclear Magnetic Resonance (NMR) measurement

Advanced Sonic measurement

Measurement While Drilling (MWD) & Logging While Drilling (LWD) techniques

(d): The use of new technologies in exploration of hydrocarbon helps to increase the chances of exploratory success in terms of hydrocarbon discoveries. This would also lead to a reduction in the finding cost of oil & gas.